

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,575	02/08/2002	Pang-Chia Lu	2002B004	1933
23455 75	590 10/09/2003		EXAM	INER
	IL CHEMICAL COM	KRUER, KEVIN R		
P O BOX 2149 BAYTOWN, TX 77522-2149			ART UNIT	PAPER NUMBER
Billio will,	77022 21 19		1773	

DATE MAILED: 10/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)		
		10/072,575	LU, PANG-CHIA		
Office Action Summary		Examiner	Art Unit		
		Kevin R Kruer	1773		
	The MAILING DATE of this communication	on appears on the cover sheet	with the correspondence address		
THE I - External after - If the - If NC - Failurian - Any II	ORTENED STATUTORY PERIOD FOR IN MAILING DATE OF THIS COMMUNICAT insions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) day to period for reply is specified above, the maximum statutory received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, however, may tion. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) MG y statute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).		
1)	Responsive to communication(s) filed o	in 08 August 2003 .			
2a)⊠		This action is non-final.			
3)	Since this application is in condition for closed in accordance with the practice u	 allowance except for formal m 			
Dispositi	ion of Claims	•	·		
4)⊠	Claim(s) <u>1-13</u> is/are pending in the appli	ication.			
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5)	Claim(s) is/are allowed.				
·	Claim(s) <u>1-13</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
•	Claim(s) are subject to restriction	and/or election requirement.			
	ion Papers The energification is objected to by the Ev	ominor			
-	The specification is objected to by the Ex		the Evenines		
10)	The drawing(s) filed on is/are: a) Applicant may not request that any objectio				
11)	The proposed drawing correction filed on				
,	If approved, corrected drawings are require		disapproved by the Examiner.		
12)	The oath or declaration is objected to by t	• •			
Priority ι	under 35 U.S.C. §§ 119 and 120				
	Acknowledgment is made of a claim for t	foreign priority under 35 U.S.C	c. § 119(a)-(d) or (f).		
•	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority docu	uments have been received.			
	2. Certified copies of the priority documents have been received in Application No.				
* (Copies of the certified copies of th application from the Internation for the attached detailed Office action for the act	nal Bureau (PCT Rule 17.2(a))).		
	Acknowledgment is made of a claim for do	•			
a	The translation of the foreign languate Acknowledgment is made of a claim for de	ge provisional application has	been received.		
ر سارت Attachmen		ssala pilani, andor oo o.o.	33 120 4114.01 121.		
1)	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449) Paper I	48) 5) Notice of	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)		

Application/Control Number: 10/072,575 Page 2

Art Unit: 1773

DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant claims a copolymer with a molecular weight of 50,000-1,000,000. However, Applicant does not specify how the molecular weight should be determined. There are three different methods of measuring molecular weight: number average, weight average, etc. Depending upon the method utilized, the reported molecular weight could be drastically different. Thus, it is impossible for one of ordinary skill in the art to duplicate the claimed invention without knowing the method by which the molecular weight was determined.

Claim Rejections - 35 USC § 102

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1, 6-8, 11, and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Morris et al (US 6,500,556) for reasons of record. Specifically, Morris teaches that the melt index of the terpolymer should be 10-60g/10min (col 3, lines 51+). Such melt indexes are associated with terpolymers with molecular weights within the claimed range (see col 4, lines 57+).

Application/Control Number: 10/072,575 Page 3

Art Unit: 1773

5. The rejection of claims 1, 8, 11, and 12 under 35 U.S.C. 102(b) as being anticipated by Hori et al (US 4,092,452) has been overcome. Hori does not teach copolymers with the claimed molecular weight. Specifically, Hori is limited to polymers with lower molecular weights (col 1, lines 48+).

Claim Rejections - 35 USC § 103

- 6. Claims 1-3, 5, and 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reid (US 4,604,322) in view of Morris et al (US 6,500,556) for reasons of record.
- 7. Claims 1-3 and 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Howden et al (US 4,357,383) in view of Morris et al (US 6,500,556) for reasons of record.
- 8. The rejection of claims 1-3, and 9-12 under 35 U.S.C. 103(a) as being unpatentable over Howden et al (US 4,357,383) in view of Birnkraut et al (US 4,032,692). Specifically, Birnkraut does not teach the newly claimed molecular weight limitation with respect to the terpolymer.
- 9. The rejection of claims 1-3 and 8-12 under 35 U.S.C. 103(a) as being unpatentable over Howden et al (US 4,357,383) in view of Hori et al (US 4,092,452) has been overcome by amendment. Specifically, Hori is limited to polymers with lower molecular weights (col 1, lines 48+).
- 10. The rejection of claims 1-3, 5, and 9-12 under 35 U.S.C. 103(a) as being unpatentable over Reid (US 4,604,322) in view of Birnkraut et al (US 4,032,692) hs

Application/Control Number: 10/072,575

Art Unit: 1773

been overcome by amendment. Specifically, Birnkraut does not teach the newly claimed molecular weight limitation with respect to the terpolymer.

- 11. The rejection of claims 1-3, 5, and 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reid (US 4,604,322) in view of Hori et al (US 4,092,452) has been overcome by amendment. Specifically, Hori is limited to polymers with lower molecular weights (col 1, lines 48+).
- 12. The rejection of claims 1-4 and 8 under 35 U.S.C. 103(a) as being unpatentable over Park (US 4,367,112) in view of Hori et al (US 4092,452) have been overcome by amendment. Specifically, Hori is limited to polymers with lower molecular weights (col 1, lines 48+).

Response to Arguments

Applicant's arguments filed August 9, 2003 have been fully considered but they are not persuasive.

Applicant argues that the prior art fails to teach a terpolymer that is extrusion grade and met the newly claimed molecular weight limitations. The examiner respectfully disagrees. Morris teaches a terpolymer with a melt index of 10-60g/10minutes. Such melt indexes are indicative of terpolymers with molecular weights within the claimed range. Furthermore, the terpolymers of Morris may be extruded (see examples), which further supports the finding that the terpolymers read on the claimed invetion. Thus, Applicant's arguments are not persuasive.

Conclusion

Page 5

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin R Kruer whose telephone number is 703-305-0025. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau can be reached on 703-308-2367. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-5408 for regular communications and 703-305-3599 for After Final communications.

Application/Control Number: 10/072,575

Art Unit: 1773

Page 6

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Kevin R. Kruer

7-RX-

October 7, 2003

e Sheoles

Paul Thibodeau Supervisory Patent Examiner Technology Center 1700